

DERWENT-ACC-NO: 1994-080666

DERWENT-WEEK: 199410

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TITLE: Cotton plant defoliation procedure - uses hot gases from tractor

exhaust with added kerosene and tar oil, directed towards plants through

nozzles on distribution pipes fed by fan

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PATENT-ASSIGNEE: YASHUGIN N N[YASHI]

PRIORITY-DATA: 1991SU-4937936 (April 19, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
RU 2002400 C1	November 15, 1993	N/A	003
A01D 046/08			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2002400C1	N/A	1991SU-4937936
19, 1991		April

INT-CL_(IPC): A01D046/08; A01G007/00 ; A01M021/04

ABSTRACTED-PUB-NO: RU 2002400C

BASIC-ABSTRACT: The procedure consists of subjecting the cotton plants to a

directed flow of hot gas, the temperature of which is set at between 170 and 190 deg. C and is applied to each plant for a period of 20-25 sec.

The gas can be supplied by a tractor exhaust system, to which kerosene and tar oil can be added in a combustion chamber, where they are ignited. The hot gases are fed through a system of pipes with nozzles (12) and a temperature sensor (14) after passing through a spark suppressor. The pipes can have a thermal insulation covering (15) to preserve the heat.

During operation the hot gases are blown onto the cotton plants from both sides as the pipes and nozzles are carried along the rows by a tractor. The outlet force is supplied by a fan driven from the tractor pto shaft.

ADVANTAGE - More effective operation, avoiding need for chemicals which create environmental pollution. Bul. 41-42/15.11.93

CHOSEN-DRAWING: Dwg.2/2

TITLE-TERMS:
COTTON PLANT DEFOLIATE PROCEDURE HOT GAS
TRACTOR EXHAUST ADD KEROSENE TAR OIL
DIRECT PLANT THROUGH NOZZLE DISTRIBUTE PIPE FEED
FAN

DERWENT-CLASS: P12 P13 P14

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1994-063007